

TYPHOON LOUISE - 201200Z-281200Z JULY 1962

I. DATA

A. Statistics

1. Calendar days of tropical warning - 8
2. Calendar days of typhoon intensity - $5\frac{1}{4}$
3. Total distance traveled during tropical warning period - 1962 MI

B. Characteristics as a typhoon

1. Min observed SLP - 958mb, 240400Z
2. Min observed 850mb height - 3750 ft, 230400Z
3. Min observed 700mb height - 9000 ft, 230400Z
4. Max vertical development - 30,000 ft, 250000Z

II. DEVELOPMENT

A. Initial impetus - Eastward movement of MPT and development of anticyclone over surface vortex.

B. Initial surface vortex

1. Embedded vortex at 190600Z, junction vortex absorbed.
2. Surface pressure less than 1008mb
3. Maximum surface wind - 15 kts

C. Zenith flow at 200mb

1. Relative position surface vortex - SE quadrant of anticyclone
2. Wind velocity over vortex - 050/25 kts

III. STEERING

- A. Prior to recurvature - 500mb
- B. During recurvature - 300mb
- C. After recurvature - 700mb

IV. DISSIPATION

- A. Causative factor - Land strike and cold air
- B. Final disposition - Dissipated

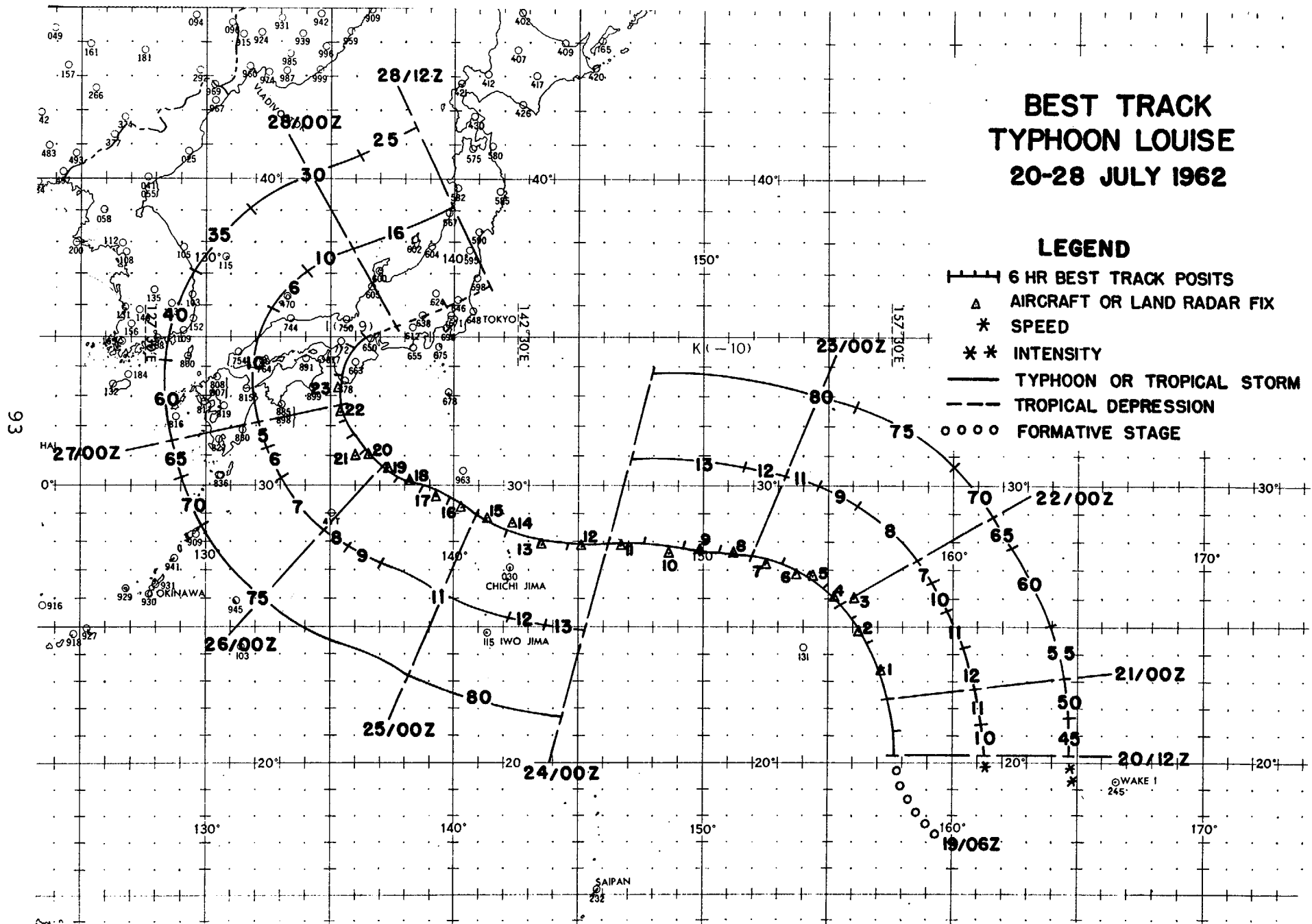
V. DAMAGE

- A. Total lives lost - 15
- B. Total monetary value - \$7,500,000
- C. Types of property - Crops, homes and bridges

BEST TRACK TYPHOON LOUISE 20-28 JULY 1962

LEGEND

- 6 HR BEST TRACK POSITS
- Δ AIRCRAFT OR LAND RADAR FIX
- * SPEED
- ** INTENSITY
- TYPHOON OR TROPICAL STORM
- - - TROPICAL DEPRESSION
- o o o o FORMATIVE STAGE



LAND RADAR AND AIRCRAFT FIXES - TYPHOON LOUISE

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
1	210601Z	23.4N	157.0E	54-P-05	50	60	9450	983	15/15	ELLIP NE-SW 30X60 MI
2	211430Z	24.8N	156.3E	VW1-R-03	-	-	-	-	- -	---
3	212241Z	26.0N	156.0E	54-P-07	50	45	9310	972	18/12	OVAL 50 MI E-W, 40 MI N-S, WALL CLDS N & S
4	220430Z	26.0N	155.1E	54-P-U	60	-	9240	967	18/11	CIRC 45 MI DIA
5	220945Z	26.7N	154.4E	VW1-R-03	-	-	-	-	- -	CIRC 40 MI DIA
6	221345Z	26.9N	153.7E	VW1-R-03	-	-	-	-	- -	CIRC 35 MI DIA, WALL CLDS 5 MI THICK
7	222130Z	27.2N	152.5E	54-P-07	70	75	9570	-	17/12	CIRC 29 MI DIA
8	230400Z	27.6N	151.1E	56-P-04	60	65	9000	960	15/11	CIRC 16 MI DIA, WALL CLDS 20 MI THICK
9	231000Z	27.6N	149.9E	VW1-R-03	-	-	-	-	- -	CIRC 37 MI DIA
10	231400Z	27.7N	148.6E	VW1-R-03	-	-	-	-	- -	CIRC 38 MI DIA
11	232145Z	27.9N	146.7E	54-P-10	75	-	9250	961	18/16	CIRC 35 MI DIA, WEAK WALL CLDS N-E
12	240400Z	27.9N	145.1E	54-P-05	75	-	9190	958	18/16	40 MI DIA, OPEN N-SE
13	241000Z	27.8N	143.5E	VW1-R-03	-	-	-	-	- -	CIRC 50 MI DIA
14	241600Z	28.6N	142.2E	VW1-R-01	-	-	-	-	- -	CIRC 54 MI DIA
15	242200Z	28.7N	141.3E	56-P-05	50	70	9430	-	16/16	CIRC 40 MI DIA, WALL CLDS 10 MI THICK
16	250330Z	29.4N	140.2E	56-P-01	-	65	9400	974	17/17	CIRC 30 MI DIA

LAND RADAR AND AIRCRAFT FIXES - TYPHOON LOUISE (CONT'D)

FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/Td (°C)	EYE CHARACTERISTICS
17	251000Z	29.6N	139.2E	VW1-R-02	-	-	-	-	- -	CIRC 30 MI DIA, WALL CLDS ALL QUADS
18	251549Z	30.1N	138.1E	VW1-R-05	-	-	-	-	- -	32 MI DIA, OPEN SW
19	252200Z	30.5N	137.3E	56-P-05	70	60	9410	971	15/15	ELLIP 32 MI E-W
20	260340Z	31.0N	136.5E	56-P-05	100	80	9370	970	16/16	ELLIP 30 MI E-W
21	261000Z	31.0N	136.0E	VW1-R-03	-	-	-	-	- -	54 MI DIA, OPEN S&W
22	262315Z	32.5N	135.4E	56-P-20	55	90	9490	974	16/13	CIRC 25 MI DIA, OPEN S
23	270300Z	33.2N	135.3E	LND/RDR	-	-	-	-	- -	---

TYPHOON LOUISE 20-28 JULY 1962
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
201200Z	20.2N	157.7E	-----	-----
201800Z	21.2N	157.5E	-----	-----
210000Z	22.2N	157.3E	-----	-----
210600Z	23.4N	157.0E	-----	-----
211200Z	24.4N	156.5E	-----	-----
211800Z	25.3N	155.9E	276-74	-----
220000Z	25.8N	155.5E	215-306	-----
220600Z	26.4N	154.8E	237-146	-----
221200Z	26.8N	154.1E	237-157	-----
221800Z	27.2N	153.1E	016-180	360-306
230000Z	27.4N	151.9E	033-212	231-286
230600Z	27.6N	150.6E	032-330	273-153
231200Z	27.7N	149.1E	038-114	294-120
231800Z	27.8N	147.6E	040-146	014-527
240000Z	27.8N	146.1E	053-132	043-760
240600Z	27.9N	144.6E	046-166	045-986
241200Z	28.1N	143.3E	127-60	016-276
241800Z	28.3N	142.0E	180-53	043-424
250000Z	28.9N	140.9E	256-100	049-283
250600Z	29.5N	139.8E	255-118	049-337
251200Z	29.9N	138.7E	265-113	206-90
251800Z	30.2N	137.7E	288-127	263-91
260000Z	30.6N	137.0E	249-44	314-247
260600Z	31.2N	136.4E	360-180	315-205
261200Z	31.7N	135.9E	012-123	320-220
261800Z	32.2N	135.5E	012-182	343-323
270000Z	32.7N	135.4E	345-67	333-217
270600Z	33.7N	135.4E	354-76	213-490
271200Z	34.6N	135.9E	192-132	219-430
271800Z	35.0N	136.5E	010-162	214-450

TYPHOON LOUISE 20-28 JULY 1962
POSITION AND FORECAST VERIFICATION DATA (CONT'D)

DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
280000Z	35.3N	137.6E	282-129	358-160
280600Z	35.8N	139.5E	308-180	338-180
281200Z	36.5N	141.3E	325-214	270-262

AVERAGE 24 HOUR ERROR 143.7 MI
AVERAGE 48 HOUR ERROR 326 MI

